

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 July 2000 (06.07.2000)

PCT

(10) International Publication Number
WO 00/38667 - A3

(51) International Patent Classification⁷: A61K 31/557,
A61P 27/06

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(21) International Application Number: PCT/US99/30746

(22) International Filing Date:
22 December 1999 (22.12.1999)

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(25) Filing Language: English

(81) Designated States (*national*): AU, BR, CA, JP, MX, US.

(26) Publication Language: English

(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

(30) Priority Data:
60/113,695 24 December 1998 (24.12.1998) US
60/113,697 24 December 1998 (24.12.1998) US

Published:

— With international search report.

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(88) Date of publication of the international search report:
11 January 2001

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 00/38667 A3

(54) Title: PROSTAGLANDIN E AGONISTS FOR TREATMENT OF GLAUCOMA

(57) Abstract: Compositions and methods for the treatment of glaucoma and/or ocular hypertension in mammals utilizing prostaglandin E receptor agonists, like rioprostol, sc-46275, enisoprost, misoprostol, nocloprost, 11-deoxy-16, 16-dimethyl-PGE2, 16,16-dimethyl-PGE2 and enprostil, are disclosed.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/0746

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/557 A61P27/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, MEDLINE, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 08585 A (ALCON LAB INC) 28 April 1994 (1994-04-28) abstract page 10, paragraph 2; claim 7 ---	1-15
X	SHEPPARD J.D.; SHRUM K.R.: "Pars plana Molteno implantation in complicated inflammatory glaucoma" OPHTHALMIC SURGERY, vol. 26, no. 3, 1995, pages 218-222, XP000951406 abstract page 219, column 2, paragraph 4 -page 220, column 2, paragraph 1 --- -/--	1-3,8-11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

19 October 2000

Date of mailing of the international search report

27/10/2000

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/30746

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ANDLEY U P; FRITZ C; MORRISON A R; BECKER B: "The role of prostaglandins E2 and F2 alpha in ultraviolet radiation-induced cortical cataracts in vivo" INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE, vol. 37, no. 8, 1996, pages 1539-1548, XP000951411. abstract page 1541, column 1, paragraph 6 -column 2, paragraph 1 page 1543, column 2, paragraph 3 -page 1544, column 2, paragraph 1</p>	1-3,8-11
X	<p>WATERBURY L D; EGLEN R M; FAUROT G F; COOPER G F: "EP-3 BUT NOT EP-2 FP OR TP PROSTANOID RECEPTOR STIMULATION MAY REDUCE INTRAOCULAR PRESSURE." INVEST OPHTHALMOL VISUAL SCI, vol. 31, no. 12, 1990, pages 2560-2567, XP000951484 abstract page 2566, column 1, paragraph 2; table 1 page 2566, column 2, paragraph 2 -page 2567, column 1, paragraph 1</p>	1,6-9, 14,15
X	<p>EP 0 170 258 A (SYNTEX INC) 5 February 1986 (1986-02-05) abstract page 9, line 5-23; examples 17,18,23; table 1</p>	1,6-9, 14,15
X	<p>ZHAN, G. -L.; CAMRAS, C. B.; OPERE, C.; TANG, L.; OHIA, S. E.: "Effect of prostaglandins on cyclic AMP production in cultured human ciliary muscle cells" J. OCUL. PHARMACOL. THER., vol. 14, no. 4, 1998, pages 293-304, XP000951407 abstract page 293, paragraph 1 -page 294, paragraph 1; figures 1A,5; table 1 page 300, paragraph 6 -page 301, paragraph 1</p>	1-5,8-13

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-15

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1,2,4,6,8,10,12 relate to a large number of possible compounds/therapeutic applications. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds/claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds/therapeutic applications specifically mentioned in claims 3,5,7,11,13,15 in relation to the treatment of glaucoma and ocular hypertension.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/0046

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